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... A **viscoelastic** analysis of a polymer melt in a ... In general, the eXtended **Pom-Pom** model

shows the ... The **visco-elastic** contribution of the  $i$ th relaxation mode is ...

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WMH Verbeeten, GWM Peters, FPT Baaijens - Journal of Rheology, 2001 - link.aip.org

... Here, the constitutive behavior for a single mode of the **viscoelastic** contribution is described with the differential **Pom-Pom** model. ...

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**Molecular constitutive equations for a class of branched polymers: The pom-pom polymer - all 7 versions »**

TCB McLeish, RG Larson - Journal of Rheology, 1998 - link.aip.org

... fixed backbone material enters into the expression for the **pom-pom** arm relaxation ... of timescales: Before proceeding to the slower **viscoelastic** modes originating ...

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**Stability analysis of viscoelastic polymer melt flows**

FPT Baaijens, AM Grillet, ACB Bogaerds, GWM Peters - Simulation of Material Processing: Theory, Methods and ..., 2001 - books.google.com

... method to analyze the stability of **viscoelastic** flows ... real-istic description of the **visco-elastic** contributions ... predictive capabilities of the **Pom- pom** model,[6 ...

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**Stability analysis of polymer shear flows using the eXtended Pom-Pom constitutive equations - all 4 versions »**

ACB Bogaerds, AM Grillet, GWM Peters, FPT Baaijens - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier

... both planar shear flows. Author Keywords: Planar **viscoelastic** shear flows; Stability analysis; **Pom-Pom** constitutive equations. ...

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**Further considerations on steady recirculating flows involving non-Newtonian fluids - all 5 versions »**

G Chaidron, F Chinesta - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier

... (9). 1.3. Third example: the **viscoelastic Pom-Pom** model. In the recent **Pom-Pom viscoelastic** model, as described in [10], the extra ...

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R Zheng, P Kennedy, N Phan-Thien, XJ Fan - Journal of Non-Newtonian Fluid Mechanics, 1999 - Elsevier

[... stresses in injection moulding for the prediction of shrinkage ...](#) Keywords: Injection moulding; Residual stresses; Shrinkage; Warpage; Fibre orientation ...

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SF Walsh - Journal of Reinforced Plastics and Composites, 1993 - jrp.sagepub.com

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H Xu, DO Kazmer - International Polymer Processing, 1999 - kazmer.uml.edu

[... Page 2. Abstract The cooling time of an injection molded part directly affects the production cost and ... simultaneously ensuring injection molded part quality. 1 ...](#)

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Peter Kennedy (1) Rong Zheng (2) (1) Moldflow Corporation ...

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J Ogando - Plastics Technology(USA), 1998 - csa.com

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A Gordillo, D Ariza, M Sanchez-Soto, MLI MasPOCH - Emerging Technologies and Factory



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G Lamberti, GWM Peters, BAG Schrauwen - Polymer Bulletin, 2003 - Springer

... to be strong enough to cause the **crystallization** to achieve ... the **injection**-moulded samples, despite their **relevance** for structure ... 185:327 7. Pantani R, Speranza V ...

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**EXCIMER LASER INDUCED PERMANENT ELECTRICAL CONDUCTIVITY AND NANOSTRUCTURES IN POLYMERS**

R Sauerbrey, HM Phillips - Excimer Lasers, 1994 - books.google.com

...  $A = V [2\sin^6\theta]$  was set to  $0.9^{\circ}$  m. The output of an **injection** controlled KrF ... 1. **Kinetics** of polymer photoablation In a recent past a number of ablation curves ...

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 PR SCHUNK, MA HEROUX, RR RAO, TA BAER, SR SUBIA, ... - 2002 - osti.gov ... **element** method ... 2, but for **viscoelastic constitutive equations** it is expedient to solve the constitutive equation separately with a mixed method, as discussed ...

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 W Xiaoming, S Yapeng - *Acta Mechanica Solida Sinica*, 1994 - Springer

 ... In the present research, the linear **viscoelastic constitutive equations** are introduced first with the ...  $RaY, = f. a, (Juz) 9 [au2(t \S ,at) -- ,au2(t)]n2ds \S O[(a ...$ 
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TCB McLeish, RG Larson - Journal of Rheology, 1998 - link.aip.org

... in the integral equation for the **orientation tensor** [Eq. ... 134. Larson, RG, "A critical comparison of **constitutive** equations for **polymer** melts," J ...

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**Differential constitutive equations for polymer melts: The extended Pom-Pom model - all 7 versions »**

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... Here, the **constitutive** behavior for a single mode of ... to get the backbone tube **orientation tensor**  $S$ . is ... of the influence of the surrounding **polymer** chains on ...

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**A simple constitutive equation for entangled polymers with chain stretch - all 2 versions »**

G Ianniruberto, G Marrucci - Journal of Rheology, 2001 - link.aip.org

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**... low density polyethylene melt rheology in elongational and shear flows with "pom-pom" constitutive ... - all 7 versions »**

NJ Inkson, TCB McLeish, OG Harlen, DJ Groves - Journal of Rheology, 1999 - link.aip.org

... the details of the molecular **constitutive** equation derived ... since they behave like star **polymer** arms). ... of the crossbar; the **orientation tensor**, which measures ...

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... by the ensemble average of the **orientation tensor**  $uu$  to ... Upper curves are from the **constitutive** equations of ... and Baek (1994), for a **polymer** concentration of 88 ...

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MH Wagner, P Ehrecke, P Hachmann, J Meissner - Journal of Rheology, 1998 - link.aip.org

... extensional flows of polyisobutylene," "A **constitutive** analysis of ... The role of the **orientation tensor** in the rheology of flexible **polymers**," Macromol ...

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GH McKinley, O Hassager - Journal of Rheology, 1999 - link.aip.org

... from equilibrium to the deformed state at  $t$ . The **orientation tensor** is, therefore ...



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M Pasquali, LE Scriven - Journal of Non-Newtonian Fluid Mechanics, 2002 - Elsevier  
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R Sureshkumar - Physics of Fluids, 1997 - wuche.wustl.edu  
... suitability of nonlinear dumbbell models in describing the **polymer** con- formation ...  
the macromolecule are de- scribed macroscopically by a **conformation tensor**, c ...

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... ratio between the relaxation time of the **polymer** chain s and the characteristic  
flow field time  $L_0 = U_0$ . The **conformation tensor**,  $R_2$  max and  $R$  are made ...

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VG Mavrantzas, HC Öttinger - Macromolecules, 2002 - pubs.acs.org  
... outlined here for three different viscoelastic fluid models: the single- and  
multiple-**conformation tensor** viscoelastic models for unentangled **polymers** and the ...

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B Eckhardt, J Kronjäger, J Schumacher - Computer Physics Communications, 2002 - Elsevier

... for the variables  $v_i$ ,  $c_{ij}$  and  $p$ . The advantage of writing the Oldroyd-B equation  
in terms of the **conformation tensor**  $c$  instead of the **polymer** stress tensor ...

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**... simulation of polymer melt elasticity: calculation of the free energy of an oriented polymer melt - all 4 versions »**

VG Mavrantzas, DN Theodorou - Macromolecules, 1998 - pubs.acs.org  
... method is developed for predicting the elasticity of a **polymer** melt through ... is the  
temperature, is the mass density, and , the **conformation tensor**, is defined ...

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**Modeling of the rheology and flow-induced concentration changes in polymer solutions - all 6 versions »**

VG Mavrantzas, AN Beris - Physical Review Letters, 1992 - APS  
... A nonisotropic form dependent on the **polymer conformation tensor**  $Q$  might better  
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... to solve free surface flows of **polymer** solutions with different **constitutive** equations. ...  
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... the distribution space, also known as the **conformation tensor**. ... of branched **polymers**:

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... ratio between the relaxation time of the **polymer** chain s ... is directly given in terms  
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... are de- scribed macroscopically by a **conformation tensor**,  $c^*$  ... where  $p_0(0^+)$  is  
the **polymer** contribution to ... we need to supply a **constitutive** relationship for ...

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... set of transport and **constitutive** equations is ... macroscopic variables include the  
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[Simulation of viscoelastic flows using Brownian configuration fields - all 5 versions »](#)

MA Hulsen, APG van Heel, BHAA van den Brule - Journal of Non-Newtonian Fluid Mechanics, 1997 - Elsevier

... Finally, the **conformation tensor** field follows from ... space  $\Phi$  and continuous bilinear  
polynomials  $Q_0$  for the viscous **polymer** stress space ... **Constitutive** equation ...

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FPT Baaijens - Rheologica Acta, 1991 - Springer

... The **flow-induced stress** upon solidification is denoted  $\sigma$ . ... The constitutive equation (4.11) can be simplified considerably ... normal stresses in a polymer melt is ...

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**Numerical simulation of thermally induced stress and warpage in injection-molded thermoplastics - all 7 versions »**

Y Gu, H Li, C Shen - Advances in Polymer Technology, 2001 - doi.wiley.com

... larger than the frozen-in **flow-induced stress**,  $O(10^{-3})$ . It is assumed that the cooling polymer behaves as an ... The constitutive equations are given as follows : 10 ...

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**Postfilling analysis of viscoelastic polymers with internal structure parameter - all 3 versions »**

X Huang, C Zhou - Polymer Engineering and Science(USA), 1999 - doi.wiley.com

... We introduce a new **constitutive** model with internal structure parameter into the system, by which microstructural changes of polymer melt can be predicted ...

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... flow simulation with a viscoelastic **constitutive** model. ... of residual stresses: 2 **flow-induced stress** and thermally ... uml.edu) Journal of Polymer Science: Part B ...

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**Prediction of residual flow and thermoviscoelastic stresses in injection molding - all 4 versions »**

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... ie, the thermodynamic equilibrium temperature, as function of the polymer thermal (14 ... basis, one obtains the general form of the **constitutive** equations for ...

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**Numerical Simulation for Effects of Injection Mold Cooling on Warpage and Residual Stresses - all 3 versions »**

CY Shen, HM Li - Polymer-Plastics Technology and Engineering, 2003 - informaworld.com

... of magnitude larger than the frozen-in **flow-induced stress**. ... We assume that the cooling

polymer behaves as an ... The **constitutive** equations are given as follows: [9 ...

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SC Chen, YC Chen, HS Peng, LT Huang - Advances in Polymer Technology, 2002 - doi.wiley.com